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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,529	02/17/2006	Charlotte Lindhardt	MERCK3133	5069
23599 7590 12/24/2009 MILLEN, WHITE, ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD.			EXAMINER	
			MA, JAMESON Q	
SUITE 1400 ARLINGTON, VA 22201		ART UNIT	PAPER NUMBER	
			1797	
			NOTIFICATION DATE	DELIVERY MODE
			12/24/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely lifed after SX (6) MONTHS from the mailing date of this communication. Failure to nelly which the set or extended period for reply with by state, cause the application to become ARADONED (SS U.S.C. § 133). Any reply received by the Office later than throe months after the mailing date of this communication, even if timely filed, may reduce any eared patient men diplastment. See 37 CFR 1.764(b). Status 1) Responsive to communication(s) filed on 23 October 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) 2-8 is/are withdrawn from consideration. 5) Claim(s)		Application No.	Applicant(s)					
JAMESON Q. MA 1797	Office Action Comments	10/568,529	LINDHARDT ET AL.					
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Electricities of time may be available under the provisions of 37 CFR 1.139(a). In no event, however, may a reply be timely filled after SIX (6) MONTH'S from the mailing date of this communication. Failwhe to reply is specified above, the mainmain status to prend vall apply and vall expres SIX (6) MONTH'S from the mailing date of this communication. Failwhe to reply within the set or extended part of the reply value in the set of extended part of the mailing date of this communication, even if dended flows, the maintenance part of the provision of the mailing date of this communication, even if dended flows, may reduce any extended part in the set of extended part of the mailing date of this communication, even if dended flows, may reduce any extended part in the set of extended part of the mailing date of this communication, even if dended flows, may reduce any extended part of the part of the mailing date of this communication. Failwhe to reply within the set or extended part of the mailing date of this communication. Failwhe to reply within the set or extended part of the mailing date of this communication. Failwhe to reply application is the mailing date of this communication. Application is spilled and part of the part of the mailing date of this communication. Failwhe to reply application is the part of the mailing date of this communication. Failwhe to reply application for the mailing date of the mailing date of this communication. Application of Claims Failwhe to reply application is to the date with mailing date of the part of the	Oπice Action Summary	Examiner	Art Unit					
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* See the attached detailed Office action for a list of the certified copies not received.	See the attached detailed Office action for a list	or the certified copies flot receive	u.					
Attachment(s)	Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)		4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	te							
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:	· 	· —	atent Application					

Application/Control Number: 10/568,529 Page 2

Art Unit: 1797

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1, 10-14, 16-18, 20-21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schrecengost et al. (US 6,660,489) in view of Gaylarde et al. (Microbial Contamination of Stored Hydrocarbon Fuels and its Control), further in view of Grubbs et al. (US 4,945,144) or Friswell et al. (US 5,490,872) and Grubbs et al. (US 4,945,144).

Regarding claims 1, 10-14, 16-18, 20-21 and 23. Schrecengost discloses a method for detection and/or quantification of a hydrophilic compound (ATP) dispersed in a liquid matrix comprising:

providing a sample of a liquid (see C2/L49-50: biological sample)

adding to said sample an aqueous capture solution (see C3/L6-14) comprising an anionic surfactant (see C4/L22-25: SDS or sulfate ion), wherein said surfactant improves the yield of the hydrophilic compound extracted from the matrix

measuring the hydrophilic compound in the aqueous phase (see abstract).

Schrecengost discloses that the method for assaying for the presence of ATP in a sample involves allowing the ATP-magnesium-luciferin complex to interact with luciferase, wherein light is produced; and measuring the intensity of the light, wherein the presence of light corresponds to the presence of ATP (see C3/L6-24).

Schrecengost discloses that an anionic substance (for example, SDS) is used to neutralize the positive charge of the ATP extractant (see C4/L53-61). It is further noted that the reference need not disclose a neutral surfactant as recited in claim 21 because of the preceding recitation of 'optionally in combination with.'

The mixing of said sample and said capture solution thoroughly and allowing an aqueous phase to separate from the sample phase are inherent properties of a method wherein an extractant is mixed with a biological sample.

Schrecengost does not explicitly disclose the liquid as a hydrophobic matrix. However, the reference does disclose that *many industries* have a need for rapid microbial monitoring (see C1/L19-31).

Gaylarde discloses that microbial contamination is a major problem in the petroleum refining industry which can lead to a loss of product quality, formation of sludge and deterioration of pipework and storage tanks. Gaylarde discusses three majot classes of fuel – gasoline, aviation kerosene and diesel (see abstract). Gasoline, aviation kerosene, and diesel are hydrophobic matrices.

It would have been obvious to one of ordinary skill in the art at the time of invention to use as the method of Schrecengost with gasoline, aviation kerosene or diesel as the tested product, as doing so would have resulted in nothing more than choosing from a finite number of identified and predictable solutions of products at-risk of microbial contamination, as disclosed by both Schrecengost and Gaylarde.

Modified Schrecengost does not explicitly disclose the capture solution containing a water soluble dye. However the reference does disclose that a cationic extractant such as benzalkonium chloride, benzethonium chloride, or dodecyl trimethyl ammonium chloride (see C4/L53-61).

Grubbs teaches the cationic extractant methylene blue (see C10/L49-50).

It would have been obvious to one of ordinary skill in the art at the time of invention to substitute for the disclosed cationic extractants of Schrecengost, with the cationic methylene blue as taught by Grubbs, because doing so would have resulted in nothing more than the simple substitution of known cationic extractants with a reasonable expectation of success.

Alternatively, Friswell teaches that Dyes and markers are needed to clearly distinguish chemically or physically similar liquids (see C1/L26-27). Schrecengost teaches many different permutations of chemically similar extractant solutions (see examples). Further, Grubbs teaches the dye methylene blue.

It would have been obvious to one of ordinary skill in the art at the time of invention to incorporate a dye as taught by Friswell into the extractant solutions taught by modified Schrecengost, in order to distinguish the many types of chemically similar liquids. It would have further been obvious to incorporate methylene blue as the dye because doing so would have resulted in nothing more than choosing from a finite number of identified and predictable dye solutions.

For claim 20, it is viewed that the quantity of dye used in modified Schrecengost would be present in a concentration sufficient to allow good visibility of the aqueous phase.

3. Claims 9, 19 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schrecengost et al. (US 6,660,489) in view of Gaylarde et al. (Microbial Contamination of Stored Hydrocarbon Fuels and its Control), further in view of Grubbs et al. (US 4,945,144) or Friswell et al. (US 5,490,872) and Grubbs et al. (US 4,945,144) as applied to claims 1, 10-14, 16-18, 20-21 and 23 above, and further in view of Calvo Salve et al. (US 5,843,509).

Regarding claims 9 and 24, modified Schrecengost discloses all of the claim limitations as set forth above. Additionally, Schrecengost discloses that an anionic substance (for example, SDS) is used to neutralize the positive charge of the ATP extractant (see C4/L53-61). However, the reference does not explicitly disclose lecithin as an extractant.

SDS is a well-known anionic substance and surfactant (surface active agent).

Calvo Salve discloses that lecithin is a natural surfactant (C1/L24) and that it is anionic (see C2/L26).

It would have been obvious to one of ordinary skill in the art at the time of invention to substitute lecithin as taught by Calvo Salve, for SDS in the extractant mixture of modified Schrecengost, because doing so would have resulted in the simple substitution of known anionic surfactants capable of neutralizing a positive charge, with a reasonable expectation of success.

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Regarding claim 19, modified Schrecengost discloses all of the claim limitations as set forth above, but the reference does not explicitly disclose the lecithin in an effective concentration between 0.1% (w/v) and 1% (w/v). Schrecengost does disclose that the purpose of the anionic substance is to effectively neutralize the negative effects of positively charged extractants commonly used to remove ATP from a biological sample (see C4/L22-27). As the effective neutralization of positively charged extractants is a variable that can be modified, among others, by adjusting said lecithin concentration, the precise lecithin concentration would have been considered a result effective variable by one having ordinary skill in the art at the time the invention was made. As such, without showing unexpected results, the claimed lecithin concentration cannot be considered critical. Accordingly, one of ordinary skill in the art at the time the invention was made would have optimized, by routine experimentation, the lecithin concentration in the method of modified Schrecengost to obtain the desired effective neutralization of the positively charged extractant (In re Boesch, 617 F.2d. 272, 205 USPQ 215 (CCPA 1980)), since it has been held that where the general conditions of the claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. (In re Aller, 105 USPQ 223).

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4. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schrecengost et al. (US 6,660,489) in view of Gaylarde et al. (Microbial Contamination of Stored Hydrocarbon Fuels and its Control), further in view of Grubbs et al. (US 4,945,144) or Friswell et al. (US 5,490,872) and Grubbs et al. (US 4,945,144) as applied

to claims 1, 10-14, 16-18, 20-21 and 23 above, and further in view of Lawrence et al. (US 2002/0197631).

Regarding claim 15, modified Schrecengost discloses all of the claim limitations as set forth above. The reference is directed to extracting ATP from a sample for measurement. The reference does not disclose the capture solution further comprising a phosphate buffer.

Lawrence discloses that a capture solution containing phosphate buffer promotes the dissolution of cellular material out of cells. Additionally, Lawrence discloses that the capture solution is compatible with detergents such as SDS (see [0107]).

It would have been obvious to one of ordinary skill in the art at the time of invention to incorporate a phosphate buffer taught by Lawrence, into the extractant mixture/capture solution of modified Schrecengost, because doing so would promote the dissolution of cellular materials (including ATP) out of cells, which would enhance its detectability in a luciferase assay as disclosed by Schrecengost.

5. Claims 15 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schrecengost et al. (US 6,660,489) in view of Gaylarde et al. (Microbial Contamination of Stored Hydrocarbon Fuels and its Control), further in view of Grubbs et al. (US 4,945,144) or Friswell et al. (US 5,490,872) and Grubbs et al. (US 4,945,144) as applied to claims 1, 10-14, 16-18, 20-21 and 23 above, and further in view of Calvo Salve et al. (US 5,843,509), as applied to claims 9, 19, and 24 above, further in view of Green et al. (abstract, Effect of chemical sanitizing agents on ATP bioluminescence measurements).

Regarding claims 15 and 22, modified Schrecengost discloses all of the claim limitations as set forth above. Schrecengost also discloses that sanitizers such as bleach are used in ATP bioluminescence assay methods and that these substances are known to have a negative affect on luciferase activity (see C2/L7-15 and C6/L4-22)

The reference does not explicitly that the sanitizer is sodium hypochlorite.

However, sodium hypochlorite is a type of bleach. Further, Green discloses that sodium hypochlorite used in proper concentrations is a chemical sanitizing agent that does not affect ATP bioluminescence measurements (see abstract).

It would have been obvious to one of ordinary skill in the art at the time of invention to use sodium hypochlorite as the sanitizing agent in the method of modified Schrecengost because as evidenced by Green, sodium hypochlorite is a sanitizing agent that would not negatively affect ATP bioluminescence measurements. This avoids the drawbacks cited by Schrecengost of known sanitizing agents. Additionally, doing so would have resulted in nothing more than choosing from a finite number of identified and predictable bleach solutions, known to be compatible in ATP bioluminescence measurement assays.

Modified Schrecengost discloses all of the compounds claimed in claim 22.

Regarding the specific amounts that are claimed, it is noted that these amounts would change based on the amount of sample to be analyzed, among other variables. These amounts therefore cannot be considered critical absent unexpected results as one of ordinary skill in the art at the time of invention would have optimized these amounts based on the amount of sample to be analyzed, among other variables.

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Response to Arguments

6. Applicant's arguments filed 10/23/2009 have been fully considered but they are not persuasive. Regarding applicant's arguments that Schrecengost is directed to food samples which cannot be compared to fuel, it is noted that Schrecengost discloses a method for measuring microbial contamination by evaluating the presence of ATP in a sample. Schrecengost further provides that many industries have a need for microbial monitoring. The newly cited reference Gaylarde is used to teach that microbial contamination is a known problem in the fuel industry. Applicant's arguments to Copeland are moot in view of the new rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMESON Q. MA whose telephone number is (571)270-7063. The examiner can normally be reached on M-F 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Marcheschi can be reached on (571)272-1374. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JM December 9, 2009

/Jill Warden/ Supervisory Patent Examiner, Art Unit 1797